

Amendment to Claims

Please amend the claims as shown below.

1. Cancel claim 1.

2. Cancel claim 2.

3 (Previously Amended). An apparatus comprising:

at least one wireless transceiver to transmit and receive signals in accordance with a first and a second protocol to and from first and second network devices of a first and a second wireless network communicatively coupled to the apparatus; and

at least one controller manager coupled to said at least one wireless transceiver to operate said at least one wireless transceiver to perform said transmits and receives in accordance with said first and second protocols in a coordinated manner, taking into consideration quality of service criteria to be achieved for the respective protocols, wherein said at least one controller manager is equipped with logic to maintain a quality metric reflective of frequency of error for each voice stream, and to make its priority determination for messages competing to be transmitted to said first and second network devices in accordance with said first and second protocols in view of said quality metric maintained for each voice stream.

4 (Original). The apparatus of claim 3, wherein said at least one controller manager is equipped with logic to increment a message transmitted counter corresponding to a voice stream whenever a message is transmitted for the voice

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stream, and not dropping a message of the voice stream until at least m messages have been successfully transmitted consecutively for the voice stream, where m is greater than $1/e$, and e is an error percentage rate not to be exceeded.

5 (Original). The apparatus of claim 4, wherein said at least one controller manager is further equipped with logic to reset a message transmitted counter corresponding to a voice stream when a message of the voice stream is dropped after at least m messages have been successfully transmitted consecutively for the voice stream.

6 (Original). The apparatus of claim 3, wherein said at least one controller manager is equipped with logic to increment a message transmitted counter corresponding to a voice stream whenever a message is transmitted for the voice stream in accordance with said first protocol, and not dropping a message of the voice stream in favor of a message of a first message type to be transmitted in accordance with said second protocol until at least m₁ messages have been successfully transmitted consecutively for the voice stream, where m₁ is greater than a first multiple of $1/e$, and e is an error percentage rate not to be exceeded.

7 (Original). The apparatus of claim 6, wherein said message of the first message type to be transmitted in accordance with said second protocol is an acknowledgement message.

8 (Original). The apparatus of claim 6, wherein said logic further not dropping a message of the voice stream in favor of a message of a second message type to be transmitted in accordance with said second protocol until at least m₂ messages have been successfully transmitted consecutively for the voice

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stream, where m_2 is greater than a second multiple of $1/e$, which is greater than m_1 .

9 (Original). The apparatus of claim 8, wherein said message of the second message type to be transmitted in accordance with said second protocol is a data message.

10 (Original). The apparatus of claim 8, wherein said at least one controller manager is further equipped with logic to reset a message transmitted counter corresponding to a voice stream when a message of the voice stream is dropped after at least m_1/m_2 messages have been successfully transmitted consecutively for the voice stream.

11. Cancel claim 11.

12. Cancel claim 12.

13. Cancel claim 13.

14. Cancel claim 14.

15. (Previously Amended) In an apparatus having at least one wireless transceiver and at least one controller manager, a method of operation comprising:

controlling said at least one wireless transceiver to transmit and receive signals in accordance with a first protocol to and from first network devices of a first wireless network; and

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controlling said at least one wireless transceiver to transmit and receive signals in accordance with a second protocol to and from second network devices of a second wireless network;

wherein both of said controlling are performed in a coordinated manner, including taking into consideration quality of service criteria to be achieved for the respective protocols and wherein said taking into consideration quality of service criteria to be achieved for the respective protocols comprises maintaining a quality metric reflective of frequency of error for each voice stream, and making priority determination for messages competing to be transmitted to said first and second network devices in accordance with said first and second protocols in view of said quality metric maintained for each voice stream.

16 (Original). The method of claim 15, wherein said taking into consideration quality of service criteria to be achieved for the respective protocols comprises incrementing a message transmitted counter corresponding to a voice stream whenever a message is transmitted for the voice stream, and not dropping a message of the voice stream until at least m messages have been successfully

17 (Original). The method of claim 16, wherein said taking into consideration quality of service criteria to be achieved for the respective protocols comprises resetting a message transmitted counter corresponding to a voice stream when a message of the voice stream is dropped after at least m messages have been successfully transmitted consecutively for the voice stream.

18 (Original). The method of claim 15, wherein said taking into consideration quality of service criteria to be achieved for the respective protocols comprises incrementing a message transmitted counter corresponding to a voice stream

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whenever a message is transmitted for the voice stream in accordance with said first protocol, and not dropping a message of the voice stream in favor of a message of a first message type to be transmitted in accordance with said second protocol until at least m_1 messages have been successfully transmitted consecutively for the voice stream, where m_1 is greater than a first multiple of $1/e$, and e is an error percentage rate not to be exceeded.

19 (Original). The method of claim 18, wherein said message of the first message type to be transmitted in accordance with said second protocol is an acknowledgement message.

20 (Original). The method of claim 18, wherein said taking into consideration quality of service criteria to be achieved for the respective protocols further comprises not dropping a message of the voice stream in favor of a message of a second message type to be transmitted in accordance with said second protocol until at least m_2 messages have been successfully transmitted consecutively for the voice stream, where m_2 is greater than a second multiple of $1/e$, which is greater than m_1 .

21 (Original). ~~The~~ The method of claim 20, wherein said message of the second message type to be transmitted in accordance with said second protocol is a data message.

22 (Original). The method of claim 20, wherein said taking into consideration quality of service criteria to be achieved for the respective protocols further comprises resetting a message transmitted counter corresponding to a voice stream

when a message of the voice stream is dropped after at least m₁/m₂ messages have been successfully transmitted consecutively for the voice stream.

23. Cancel claim 23.

24. Cancel claim 24.

25 (Previously Amended). A collection of networked apparatuses comprising:
a first plurality of apparatuses wirelessly networked together, with each apparatus being equipped to communicate wirelessly in accordance with a first protocol;

a second plurality of apparatuses wirelessly networked together, with each apparatus being equipped to communicate wirelessly in accordance with a second protocol; and

a multi-protocol apparatus equipped to communicate wirelessly with said first and second plurality of apparatuses in accordance with said first and second protocols respectively, in a coordinated manner, including having been equipped to take into consideration quality of service criteria to be achieved for the respective protocols, wherein said multi-protocol apparatus is equipped with logic to maintain a quality metric reflective of frequency of error for each voice stream, and to make its priority determination for messages competing to be transmitted to said first and second network devices in accordance with said first and second protocols in view of said quality metric maintained for each voice stream.

26 (Original). The apparatuses of claim 25, wherein said multi-protocol apparatus is equipped with logic to increment a message transmitted counter corresponding to a voice stream whenever a message is transmitted for the voice

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stream, and not dropping a message of the voice stream until at least m messages have been successfully transmitted consecutively for the voice stream, where m is greater than $1/e$, and e is an error percentage rate not to be exceeded.

27 (Original). The apparatuses of claim 26, wherein said multi-protocol apparatus is further equipped with logic to reset a message transmitted counter corresponding to a voice stream when a message of the voice stream is dropped after at least m messages have been successfully transmitted consecutively for the voice stream.

28 (Original). The apparatuses of claim 25, wherein said multi-protocol apparatus is equipped with logic to increment a message transmitted counter corresponding to a voice stream whenever a message is transmitted for the voice stream in accordance with said first protocol, and not dropping a message of the voice stream in favor of a message of a first message type to be transmitted in accordance with said second protocol until at least m₁ messages have been successfully transmitted consecutively for the voice stream, where m₁ is greater than a first multiple of $1/e$, and e is an error percentage rate not to be exceeded.

29 (Original). The apparatuses of claim 28, wherein said message of the first message type to be transmitted in accordance with said second protocol is an acknowledgement message.

30 (Original). The apparatuses of claim 28, wherein said logic further not dropping a message of the voice stream in favor of a message of a second message type to be transmitted in accordance with said second protocol until at least m₂ messages have been successfully transmitted consecutively for the voice

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stream, where m_2 is greater than a second multiple of $1/e$, which is greater than m_1 .

31 (Original). The apparatuses of claim 30, wherein said message of the second message type to be transmitted in accordance with said second protocol is a data message.

32 (Original). The apparatuses of claim 30, wherein said multi-protocol apparatus is further equipped with logic to reset a message transmitted counter corresponding to a voice stream when a message of the voice stream is dropped after at least m_1/m_2 messages have been successfully transmitted consecutively for the voice stream.

33. Cancel claims 33 – 38.